

WHAT IS CLAIMED IS:

1. A method of data communication, comprising:
generating a first series of tones, the first series of tones encoding digital data
in a predetermined message format;
5 transmitting the first series of tones over a communication medium to a remote
device; and
receiving a second series of tones, the second series of tones encoding a reply
to the transmitted first series of tones in the predetermined message format.
- 10 2. The method, as set forth in claim 1, wherein generating the first series
of tones comprises generating a header, an opcode, and a checksum.
- 15 3. The method, as set forth in claim 1, wherein generating the first series
of tones comprises generating a header, an opcode, data, and a checksum.
4. The method, as set forth in claim 1, wherein generating the first series
of tones comprises generating tones each representing a hexadecimal value.
- 20 5. The method, as set forth in claim 1, wherein receiving the second
series of tones comprises receiving a checksum for the first series of tones.
- 25 6. The method, as set forth in claim 1, wherein generating the first series
of tones comprises generating tones representing a first predetermined password, and
receiving the second series of tones comprises receiving tones representing a second
predetermined password corresponding to the first predetermined password.
- 30 7. The method, as set forth in claim 1, wherein generating the first series
of tones comprises generating tones representing a first predetermined password, and
receiving the second series of tones comprises receiving tones representing a
disconnect message.

375
370
Frame
Cell

- [illegible]

11. A communication method, comprising:
dialing a predetermined destination address of a remote server and waiting for
a connection;

5 generating a first series of tones, the first series of tones encoding digital data
in a predetermined message format;

transmitting the first series of tones over the connection to the remote server;
and

10 receiving a second series of tones, the second series of tones encoding an
acknowledge message, the second series of tones encoding digital data in the
predetermined message format.

12. The method, as set forth in claim 11, wherein generating the first series
of tones comprises generating a header, an opcode, and a checksum.

15 13. The method, as set forth in claim 11, wherein generating the first series
of tones comprises generating a header, an opcode, data, and a checksum.

20 14. The method, as set forth in claim 11, wherein generating the first series
of tones comprises generating tones each representing a hexadecimal value.

15. The method, as set forth in claim 11, wherein receiving the second
series of tones comprises receiving a checksum for the first series of tones.

25 16. The method, as set forth in claim 11, wherein generating the first series
of tones comprises generating tones representing a first predetermined password, and
receiving the second series of tones comprises receiving tones representing a second
predetermined password corresponding to the first predetermined password.

30 17. The method, as set forth in claim 11, wherein generating the first series
of tones comprises generating tones representing a first predetermined password, and
receiving the second series of tones comprises receiving tones representing a
disconnect message.

18. The method, as set forth in claim 11, wherein generating the first series of tones comprises generating a series of DTMF tones.

5 19. The method, as set forth in claim 11, wherein transmitting the first series of tones comprises transmitting over a POTS line.

10 20. The method, as set forth in claim 11, further comprising:
receiving a block message from the remote server;
sending an acknowledge message to the block message to the remote server;
receiving a data message containing data from the remote server;
sending an acknowledge message to the data message to the remote server;
receiving a clear block message from the remote server; and
15 sending an acknowledge message to the clear block message to the remote server.

21. The method, as set forth in claim 20, further comprising sending a disconnect message to the remote server.

20 22. The method, as set forth in claim 20, further comprising receiving a disconnect message from the remote server.

23. A communication method, comprising:

dialing a predetermined destination address of a remote server and waiting for a POTS connection;

5 generating a first series of DTMF tones, the first series of DTMF tones encoding digital data in a predetermined message format having a header, an opcode, and a checksum;

transmitting the first series of DTMF tones over the POTS connection to the remote server; and

10 receiving a second series of DTMF tones, the second series of DTMF tones encoding an acknowledge message, the second series of DTMF tones encoding digital data in the predetermined message format.

24. The method, as set forth in claim 23, wherein generating the first series of DTMF tones comprises generating a header, an opcode, data, and a checksum.

15 25. The method, as set forth in claim 23, wherein generating the first series of DTMF tones comprises generating tones each representing a hexadecimal value.

20 26. The method, as set forth in claim 23, wherein receiving the second series of DTMF tones comprises receiving a checksum for the first series of DTMF tones.

25 27. The method, as set forth in claim 23, wherein generating the first series of DTMF tones comprises generating DTMF tones representing a first predetermined password, and receiving the second series of DTMF tones comprises receiving DTMF tones representing a second predetermined password related to the first predetermined password.

30 28. The method, as set forth in claim 23, wherein generating the first series of DTMF tones comprises generating DTMF tones representing a first predetermined password, and receiving the second series of DTMF tones comprises receiving DTMF tones representing a disconnect message.

29. The method, as set forth in claim 23, further comprising:
receiving a block message represented in DTMF tones from the remote server;
sending an acknowledge message represented in DTMF tones to the block
5 message to the remote server;
receiving a data message represented in DTMF tones containing data from the
remote server;
sending an acknowledge message represented in DTMF tones to the data
message to the remote server;
10 receiving a clear block message represented in DTMF tones from the remote
server; and
sending an acknowledge message represented in DTMF tones to the clear
block message to the remote server.

15 30. The method, as set forth in claim 29, further comprising sending a
disconnect message to the remote server.

31. The method, as set forth in claim 29, further comprising receiving a
disconnect message from the remote server.